Trade and Industrial Education
***Course:* Automotive: Engine Performance**
Course Code # 5711
2 Credits

School Year _____

Term:____Fall____Spring

Student:	Grade:
Teacher:	School:
Number of Competencies in Course:	**41**
Number of Competencies Mastered:	
Percent of Competencies Mastered:	

STANDARD 1.0: Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
1.1	Demonstrate positive leadership skills in the classroom and community.		
1.2	Participate in SkillsUSA-VICA as an integral part of classroom instruction.		
1.3	Investigate how technology has made an impact on engine performance in the past 2 years.		
1.4	Construct a job search network.		

STANDARD 2.0: Students will demonstrate automotive technology safety practices, including Occupational Safety and Health Administration (OSHA) and Environmental Protection Agency (EPA) requirements for an automotive repair facility.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
2.1	Determine the safe and correct application and disposal for chemicals used in an automotive repair facility.		
2.2	Use protective clothing, eye protection, and safety equipment.		
2.3	Use fire protection equipment.		
2.4	Follow OSHA and EPA regulations affecting engine performance service technology.		
2.5	Respond to manufacturer safety communications concerning engine performance systems and components.		
2.6	Pass with 100 % accuracy a written examination relating to safety issues.		
2.7	Pass with 100% accuracy a performance examination relating to safety.		
2.8	Maintain a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.		

STANDARD 3.0: Students will apply fundamental mathematical and science concepts to automotive engine performance technology.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
3.1	Examine how mathematics and physics concepts and laws apply to automotive engine performance.		
3.2	Analyze the functions and operation of automotive engines and fuel systems.		
3.3	Analyze the functions and operation of automotive ignition systems and emission systems.		

STANDARD 4.0: Students will properly test, diagnose, and service automotive engines.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
4.1	Inspect and test engine mechanical, electrical, electronic, fuel, and ignition systems.		
4.2	Diagnose engine mechanical, electrical, electronic, fuel, and ignition problems and determine necessary action.		
4.3	Service and repair automotive engine mechanical, electrical, electronic, fuel, and ignition systems.		

STANDARD 5.0: Students will properly test, diagnose, service, and repair fuel delivery systems.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
5.1	Inspect and test fuel delivery systems and components.		
5.2	Diagnose fuel delivery system problems and determine necessary action.		
5.3	Service and repair fuel delivery systems and components.		

STANDARD 6.0: Students will properly test, diagnose, service, and repair emission systems.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
6.1	Comply with state and federal regulations related to exhaust emissions.		
6.2	Inspect and test emission systems and components.		
6.3	Diagnose fuel emission system problems and determine necessary action.		
6.4	Service and repair emission systems and components.		

STANDARD 7.0: Students will properly test, diagnose, service, and repair ignition systems.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
7.1	Inspect and test ignition systems and components.		
7.2	Diagnose ignition system problems and determine necessary action.		
7.3	Service and repair ignition systems and components.		

STANDARD 8.0: Students will properly test, diagnose, service, and replace computerized engine controls.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
8.1	Analyze information and data pertinent to computerized engine controls.		
8.2	Inspect and test **c**omputerized engine control systems and components.		
8.3	Diagnose **c**omputerized engine control problems and determine necessary action.		
8.4	Service or replace **c**omputerized engine control systems and components.		

STANDARD 9.0: Students will demonstrate communication skills required in the automotive service industry.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
9.1	Communicate and comprehend oral and written information typically occurring in engine performance service.		
9.2	Solve engine performance problems and make decisions using a logical process.		
9.3	Use teamwork skills to accomplish goals, solve problems, and manage conflict within groups.		

STANDARD 10.0: Students will demonstrate interpersonal and employability skills required in the automotive services industry.

Learning Expectations	Check the appropriate Mastery or Non-Mastery column	Mastery	Non-Mastery
10.1	Evaluate career goals and establish long-term goals.		
10.2	Demonstrate attitudes conducive to workplace success.		
10.3	Maintain a neat and orderly work area.		
10.4	Assess implications of diversity for communities, workplaces, and manufacturers.		
10.5	Develop personal financial skills.		
10.6	Develop individual time management and work sequencing skills relating to engine performance procedures.		

Additional Comments _____